INHALT – CONTENTS – SOMMAIRE

ORIGINALARBEITEN

Original Papers · Articles originaux

	Seite *Page*	Nr. *Issue*
Ache, G.A.: An exponential decay estimate for the stationary axisymmetric perturbation of Poiseuille flow in a circular pipe	116	1
Alessandrini, G., and Magnanini, R.: Symmetry and non-symmetry for the overdetermined Stekloff eigenvalue problem	44	1
Aloui, F., and Souhar, M.: Etude de la chute de pression singulière dans les élargissements brusques en écoulement monophasique turbulent	371	3
Aulbach, B., and Garay, B.M.: Partial linearization for noninvertible mappings	505	4
Aziz, S.M.: Appearance of oscillations under the effect of an oscillatory force	287	2
Brandon, D., and Rogers, R.C.: Nonlocal superconductivity	135	1
Brock, L.M., Georgiadis, H.G., and Charalambakis, N.: Static frictional indentation of an elastic half-plane by a rigid unsymmetrical punch	478	3
Capodanno, P.: Sur l'existence des petites oscillations d'une colonne liquide cylindrique en apesanteur	81	1
Caviglia, G., and Morro, A.: Gaussian beam propagation in dissipative solids	599	4
Celletti, A.: Construction of librational invariant tori in the spin-orbit problem	61	1
Deimling, K: Periodic solutions of dry friction problems	53	1
Delale, C.F., and Meier, G.E.A.: Real gas effects in thermally choked nozzle flows	245	2
Descloux, J.: A stability result for the magnetic shaping problem	543	4
Elhefnawy, A.R.F.: Nonlinear electrohydrodynamic Klevin-Helmholtz and Marangoni instabilities near the marginal state	27	1
Ellermeier, W.: Resonant wave motion in a non-homogeneous system	275	2
Ennenbach, R.: The inclusion of Stekloff eigenvalues by boundary data approximation	399	3
Ferrándiz, J.-M., and Sansaturio, M.-E.: Extended canonical transformations with redundant variables: Hamiltonian and Lagrangean formulations and degeneration	458	3
Fosdick, R., and Zhang, Y.: Coexistent phase mixtures in the anti-plane shear of an elastic tube	202	2
Gorenflo, N.: An exact far-field inversion for the Born approximation and plane wave decompositions for Hankel functions	784	5
Granik, Yu.V., and Kononov, A.V.: Sur l'analyse de l'évolution et de la stabilité de l'onde de choc dans la classe de perturbations exponentielles	658	4
Hartholt, G.P., Hoffmann, A.C., Janssen, L.P.B.M., Hoogstraten, H.W., and Moes, J.H.: Finite element calculations of flow past a spherical bubble rising on the axis of a cylindrical tube	733	5
Hutter, K., Jöhnk, K., and Svendsen, B.: On interfacial transition conditions in two phase gravity flow	746	5
Jiang, Q.: Modeling of stress relaxation associated with an electrically-induced phase transformation	899	6
Kedney, P.J., and Stewart, I.W.: The onset of layer deformations in non-chiral smectic C liquide crystals	882	6
Keller, J.J.: The effects of non-uniform density and stagnation pressure on the breakdown characteristics of a vortex	347	3

Khalili, A., and Rath, H.J.: Analytical solution for a steady flow of enclosed rotation disks 670 4
Klepp, H.J.: Stopping checks in a system with two degrees-of-freedom and friction-affected constraints governed by both generalized co-ordinates 580 4
Knobel, R., and McLaughlin, J.R.: A reconstruction method for a two-dimensional inverse eigenvalue problem 794 5
Lin, C., and Payne, L.E.: Phragmen-Lindelöf type results for second order quasilinear parabolic equations in R^2 . . . . . 294 2
Llibre, J., and Soler, J.: An analytic estimation for the instability interval near second order resonances in the restricted three-body problem 956 6
Meere, M.G., King, J.R., and Rogers, T.G.: Asymptotic analysis of a model for substitutional-interstitial diffusion 763 5
Merkin, J.H.: A note on the similarity equations arising in free convection boundary layers with blowing and suction 258 2
Naghdi, P.M., and Srinivasa, A.R.: Some general results in the theory of crystallographic slip 687 5
Namachchivaya, S.N., Doyle, M.M., Langford, W.F., and Evans, N.W.: Normal form for generalized Hopf bifurcation with non-semisimple 1:1 resonance 312 2
Olsson, P., and Kristensson, G.: Wave splitting of the Timoshenko beam equation in the time domain 866 6
Payne, L.E., and Schaefer, P.W.: Some Phragmén-Lindelöf type results for the biharmonic equation 414 3
Phan-Thien, N., and Kim, S.: The load transfer between two rigid spherical inclusions in an elastic medium 177 2
Philip, J.R.: Exact solutions for nonlinear diffusion with nonlinear loss 387 3
Qi, Y.-W.: The self-similar solutions to a fast diffusion equation 914 6
Reinfelds, A.: The reduction principle for discrete dynamical and semidynamical systems in metric spaces 933 6
Renardy, M.: On the linear stability of hyperbolic PDEs and viscoelastic flows 854 6
Schneider, G.: Error estimates for the Ginzburg-Landau approximation 433 3
Scholtysik, M., Bettelini, M., and Fanneløp, T.K.: A note on problems in 3D boundary layer computations in streamline coordinates 153 1
Srinivasan, R.: Exact solutions of Rayleigh's equation and sufficient conditions for inviscid instability of parallel, bounded shear flows 615 4
Swaters, G.E.: On stationary baroclinic planetary dipole-vortices in a continuously-stratified fluid of finite depth 638 4
Weeks, S.W., Sander, G.C., Lisle, I.G., and Parlange, J.-Y.: Similarity solutions of radially symmetric two-phase flow 841 6
Willms, N.B., and Gladwell, G.M.L.: Saddle points and overdetermined problems for the Helmholtz equation 1 1
Willms, N.B., Gladwell, G.M.L., and Siegel, D.: Symmetry theorems for some over-determined boundary value problems on ring domains 556 4
Zheng, R., and Phan-Thien, N.: On the non-orthogonal stagnation flow of the Oldroyd-B fluid 99 1

KURZE MITTEILUNGEN

Brief reports · Communications brèves

	Seite *Page*	Nr. *Issue*
Chawla, S.S.: Flow past a torsionally oscillating plane	986	6
Edward, J.: An inequality for Steklov eigenvalues for planar domains	493	3
Ennenbach, R.: The inclusion of Stekloff eigenvalues for nonsmooth bounded domains	827	5
Geurst, J.A.: Helicity conservation in two-phase bubbly flow	681	4
Palaniappan, D.: Creeping flow about a slightly deformed sphere	832	5
Renardy, M.: On an eigenvalue problem arising in the study of the stability of ocean currents	497	3
Saccomandi, G.: Some exact pseudo-plane solutions of the first kind for the Navier-Stokes equations	978	6
Selvadurai, A.P.S.: A contact problem for a smooth rigid disc inclusion in a penny-shaped crack	166	1
Troesch, H.A.: Durchschnittliche, mittlere und andere charakteristische Tropfendurchmesser von Tropfenspektren zerstäubter Flüssigkeiten	336	2

VARIA

Miscellaneous · Divers

Bevorstehende internationale Tagungen – List of forthcoming international meetings – Prochaines conférences internationales	174	1
	345	2
	502	3
	991	6

BUCHBESPRECHUNGEN

Book reviews · Notices bibliographiques

	Seite *Page*	Nr. *Issue*
Alt, H.W.: Lineare Funktionanalysis – eine anwendungsorientierte Einführung, 2. Aufl. (Springer-Verlag, Berlin 1993) (C.A. Stuart)	346	2
Brekhovskikh, L.M. and Goncharov V.: Mechanics of Continua and Wave Dynamics, 2nd ed. (Springer-Verlag, Berlin 1994) (M. Renardy)	992	6
Chadam, J.M. and Rasmussen, H. (eds.): Free Boundary Problems in Fluid Flow with Applications (Longman, Harlow 1993) (M. Renardy)	345	2
De Melo, W. and van Strien, S.: One-Dimensional Dynamics (Springer-Verlag, Berlin 1993) (V. Baladi)	994	6
Drábek, P.: Solvability and Birfurcation of Nonlinear Equations (Longman, Harlow 1992) (C.A. Stuart)	346	2
Fedoryuk, M.V.: Asymptotic Analysis, Linear Ordinary Differential Equations (Springer-Verlag, Berlin 1993) (J. Grasman)	503	3
Galdi, G.P. and Necas, J. (eds.): Recent Developments in Theoretical Fluid Mechanics (Longman, Harlow 1993) (M. Renardy)	502	3
Gander, W. and Hrebicek, J.: Solving Problems in Scientific Computing Using Maple and Matlab (Springer-Verlag, Berlin 1993) (H.R. Schneebeli)	993	6
Garroni M.G. and Menaldi, J.L.: Green Functions for Second Order Parabolic Integro-Differential Problems (Longman, Harlow 1992) R. Sperb	503	3

Györi, I. and Ladas, G.: Oscillation Theory of Delay Differential Equations (Oxford University Press 1991) (I.P. Stavroulakis) 994 6
Hackbusch, W. (ed.): Parallel Algorithms for Partial Differential Equations, Proceedings of the Sixth GAMM-Seminar, Kiel, Jan. 19-21, 1990 (Vieweg, Braunschweig 1991) (R. Jeltsch) 345 2
Hairer, E., Nørsett, S.P. and Wanner, G. (eds.): Solving Ordinary Differential Equations, I. Nonstiff Problems (Springer-Verlag) (K. Nipp) 685 4
Koschmieder, E.L.: Bénard Cells and Taylor Vortices (Cambridge University Press 1993) (A. Bottaro) 503 3
Mayer, M. und Thalhofer, U.: Numerische Lösungsverfahren in der Praxis, FEM-BEM-FDM. (C. Hanser, München/Wien 1993) (K. Nipp) 993 6
Murray, J.D.: Mathematical Biology, 2nd corr. ed. (Springer-Verlag, Berlin 1993) (R. Sperb) 685 4
Neunzert, H., Eschmann, W.G., Blickensdörfer-Ehlers, A., and Schelker, K.: Analyis I, 2. Korr. Aufl. (Springer-Verlag, Berlin 1993) (R. Sperb) 346 2
Rodrigues, J.F. and Sequeira, A. (eds.): Mathematical Topics in Fluid Mechanics, Proc. summer course Lisbon, Protugal, September 9-13, 1991 (Longman, Harlow 1992) (R. Rautmann) 686 4
Stoyan, D.: Stochastik für Ingenieure und Naturwissenschaftler (Akademie Verlag, Berlin 1993) (H.R. Künsch) 839 5
Waldschmidt, M., Moussa, P., Luck, J.-M. and Itzikson, C. (eds.): From Number Theory to Physics (Springer-Verlag, Berlin 1992) (J. Denzler) 840 5
Yarin, A.L.: Free Liquid Jets and Films: Hydrodynamics and Rheology (Longman, Harlow 1993) (M. Renardy) 503 3

AUTORENREGISTER

Index of authors · Table des auteurs

Ache, G.A., 116
Alessandrini, G., 44
Aloui, F., 371
Aulbach, B., 505
Aziz, S.M., 287

Bettelini, M., 153
Brandon, D., 135
Brock, L.M., 478

Capodanno, P., 81
Caviglia, G., 599
Celletti, A., 61
Charalambakis, N., 478
Chawla, S.S., 986

Deimling, K., 53
Delale, C.F., 245
Descloux, J., 543
Doyle, M.M., 312

Edward, J., 493
Elhefnawy, A.R.F., 27
Ellermeier, W., 275
Ennenbach, R., 399, 827
Evans, N.W., 312

Fanneløp, T.K., 153
Ferràndiz, J.-M., 458
Fosdick, R., 202

Garay, B.M., 505
Georgiadis, H.G., 478
Geurst, J.A., 681
Gladwell, G.M.L., 1, 556
Gorenflo, N., 784
Granik, Yu.V., 658

Hartholt, G.P., 733
Hoffmann, A.C., 733
Hoogstraten, H.W., 733
Hutter, K., 746

Janssen, L.P.B.M., 733
Jiang, Q., 899
Jöhnk, K., 746

Kedney, P.J., 882
Keller, J.J., 347
Khalili, A., 670
Kim, S., 177
King, J.R., 763
Klepp, H.J., 580
Knobel, R., 794
Kononov, A.V., 658
Kristensson, G., 866

Langford, W.F., 312
Lin, C., 294
Lisle, I.G., 841
Llibre, J., 956

Magnanini, R., 44
McLaughlin, J.R., 794
Meere, M.G., 763
Meier, G.E.A., 245
Merkin, J.H., 258
Moes, J.H., 733
Morro, A., 599

Naghdi, P.M., 687
Namachchivaya, S.N., 312

Olsson, P., 866

Palaniappan, D., 832
Parlange, J.-Y., 841
Payne, L.E., 294, 414
Phan-Thien, N., 99, 177
Philip, J.R., 387

Qi, Y.-W., 914

Rath, H.J., 670
Reinfelds, A., 933
Renardy, M., 497, 854
Rogers, R.C., 135
Rogers, T.G., 763

Saccomandi, G., 978
Sander, G.C., 841
Sansaturio, M.-E., 458
Schaefer, P.W., 414
Schneider, G., 433
Scholtysik, M., 153
Selvadurai, A.P.S., 166
Siegel, D., 556
Soler, J., 956
Souhar, M., 371
Srinivasa, A.R., 687
Srinivasan, R., 615
Stewart, I.W., 882
Svendsen, B., 746
Swaters, G.E., 638

Troesch, H.A., 336

Weeks, S.W., 841
Willms, N.B., 1, 556

Zhang, Y., 202
Zheng, R., 99